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Intended for: Overview of CINT for purposes of advertising Program Director Position

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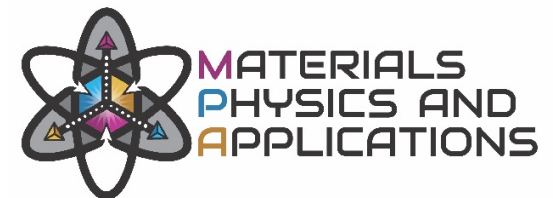
MPA CINT PPD-4 Search

July 8, 2019



Tanja Pietraß

MPA-DO



Operated by Los Alamos National Security, LLC for the U.S. Department of Energy's NNSA

The position

- **Project-Program Director 4 for MPA-CINT**

Combines line and program!

- **Check**

<https://jobclassification.lanl.gov/JobDescriptions.aspx?JobCode=LAB-0M6134>

for details on the Project Program Director 4 job series

- **Co-Director of the Center for Integrated Nanotechnologies, CINT**
 - One of two sites of CINT: Gateway Facility (LANL) and Core Facility (SNL)
 - Primary sponsor is BES/SUF; CINT Director and Co-Director are primary PoCs for BES PM
 - Weekly travel to CINT Core
- **Line Manager (equivalent to Group Leader) for MPA-CINT (Gateway)**
 - about 25 staff
 - Lots of guests, foreign visitors, students, PDs

Materials Physics and Applications Leadership Team



Tanja Pietraß
Division Leader



Chris Rose
Acting Deputy
Division Leader

**Safety and Process
Coordinator**



**Ricardo
Marti-Arbona**

**Center for Integrated
Nanotechnologies
(MPA-CINT)**



Vacant
Project-Program Director,
CINT Co-Director



**James H.
Werner**



**Dmitry A.
Yarotski**

Deputy Group Leaders

**Condensed Matter and
Magnet Science
(MPA-CMMS)**



Michael F. Hundley
Group Leader

**National High Magnetic
Field Laboratory
(MPA-MAG)**



Michael W. Rabin
Project-Program Director
Director, NHMFL-PFF



Ross D. McDonald

Deputy Director

**Materials Synthesis and
Integrated Devices
(MPA-11)**



**Andrew M.
Dattelbaum**
Group Leader



George S. Goff. Vacant

Deputy Group Leaders

MPA and CINT Characteristics



We do great research, and lots of it!

MPA research is conducted in

- chemical,
- biological,
- radiological and
- physics and laser laboratories

MPA is spread out over several TAs

CINT has an international user program - lots of visitors, PDs, students, FNs

CINT Operations Involve:

- Class 3b/4 lasers
- Chemical synthesis laboratories with hazardous substances
- Deposition systems
- Electron microscopy, nanomechanical testing
- Cryogenics

CINT is One Community Focused on Nanoscience

Core Facility (SNL)



Gateway Facility (LANL)



CINT Operations:

- Two Facilities (total 130,000 gsf)
- 56 scientists & technologists
- ~60 post-docs & students
- Peer-review proposal process
- No-fee for pre-competitive research
- Full cost recovery for proprietary research



U.S. DEPARTMENT OF
ENERGY

Office of
Science



Center for Integrated Nanotechnologies



DOE-Funded Nanoscience User Facility

Scientific Thrusts

- In situ Characterization and Nanomechanics
- NanoPhotonics and Optical Nanomaterials
- Soft, Bio and Composite Nanomaterials
- Quantum Materials Systems

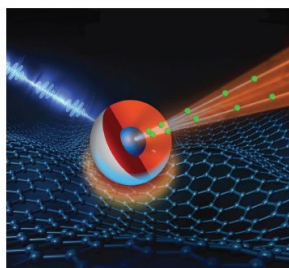
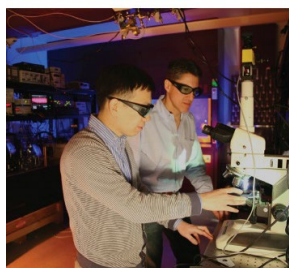
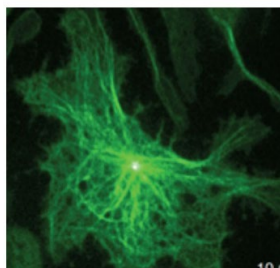
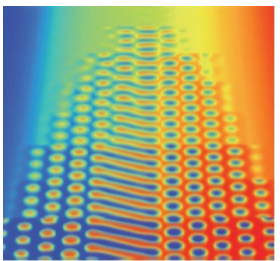
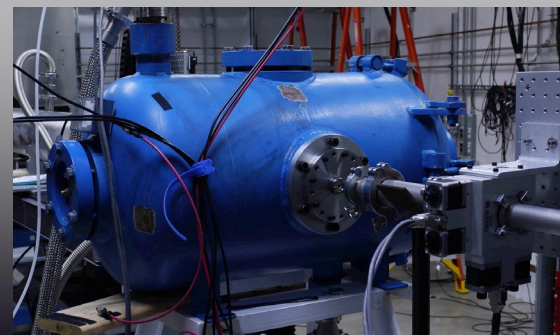


Gateway Facility (LANL)

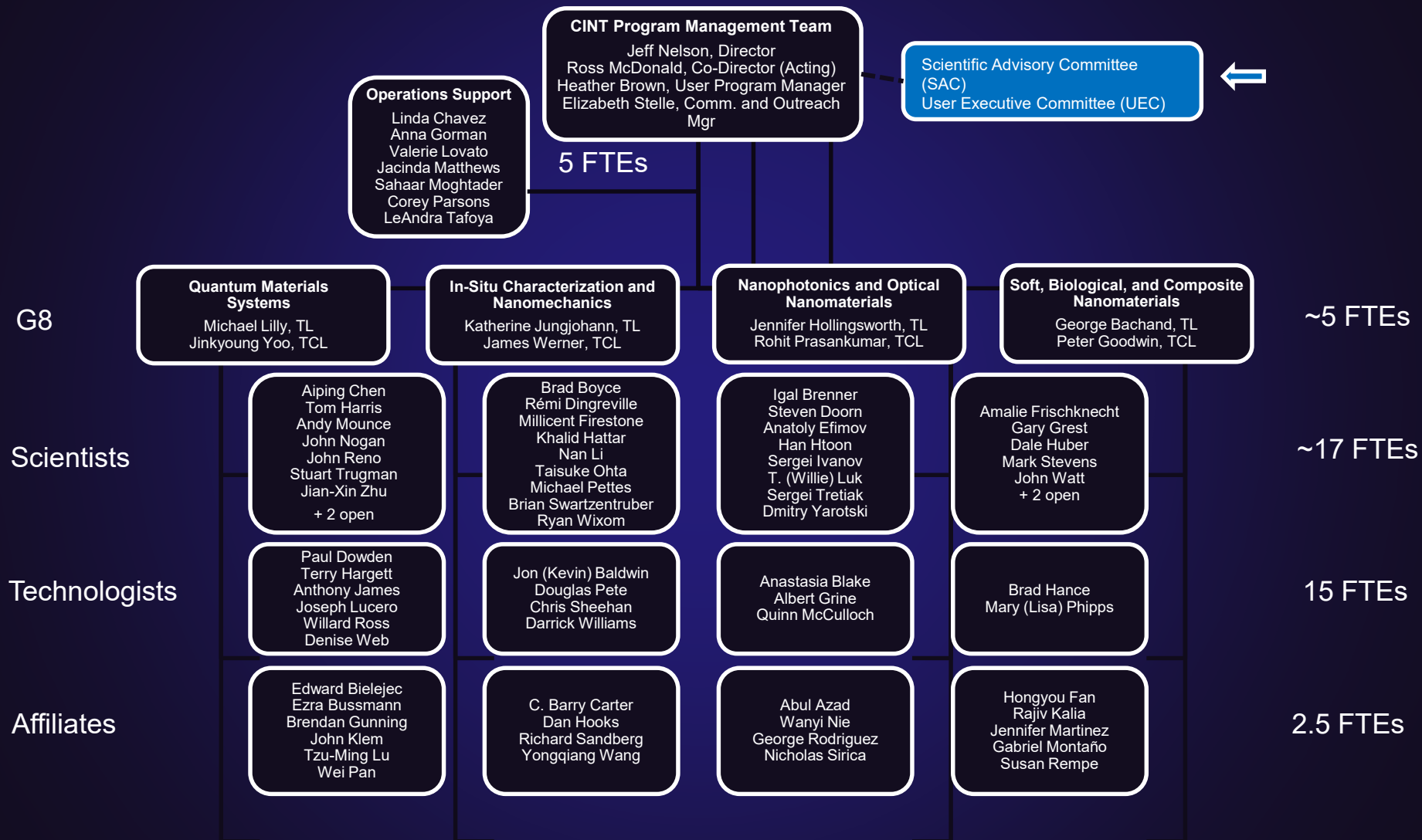


Core Facility (SNL)

Programmatic Contributions



CINT Organizational Chart



What You Will Do and Who You Are

What you will do:

- Technical, programmatic, line and operations leadership and management
- Member of the MPA leadership team
- Key partner to CINT Core; program spokesperson (with Director)

Who you are:

- Outstanding scientific credentials
- Team player (partnership with SNL is critical to success)
- Lab citizen
- PhD in physical science, or a relevant discipline preferred
- Ability to work alone, work overtime or irregular schedule, and the ability to go on domestic or foreign travel

What is MPA looking for?

Partnership with SNL

- Building and growing **cross-lab partnerships** with the CINT Director in developing and executing CINTs scientific vision and strategy as it relates to BES and CINT's broader set of sponsors;
- Providing **technical leadership and management of center personnel** and resources to ensure the scientific vitality of the organization and to secure programmatic work aligned with LANL and the center's mission;
- **Integrating CINT with LANL** capabilities and programs, providing benefit to both CINT and LANL;
- **Integrity**; the ability to establish **trust**; **commitment** to scientific, operational, and technical excellence; and delivery on commitments.

What is MPA looking for?

Partnership with SNL

- Nurturing an intellectual environment conducive to scientific research, development, and innovation that retains and attracts the highest caliber scientific staff and ensures appropriate mentoring and supervision of CINT's postdoc and students;
- Implementing all applicable safety, environment, security, and quality, compliance and administrative policies;
- Being a member of the Materials Physics and Applications Division Leadership team, championing the strategic, tactical, and operational success of the division in partnership with colleague group- and division-level managers.

What is MPA looking for?

Minimum Requirements:

- Outstanding scientific research and technical leadership in nanoscience, or related field as evidenced by publications, citations, and presentations.
- Leadership experience within a complex or multi-disciplinary R&D organization.
- Track record of successful grantsmanship, externally-funded scientific research programs from varying sponsors and management of large research projects.
- Demonstrated success in strategic planning and implementation.
- Record of effective communication, teamwork, and consensus building within the scientific community.
- Record of successful mentorship and technical development of personnel.

What is MPA looking for?

Minimum Requirements:

- Demonstrated ability to manage safely, securely and effectively diverse research facilities with chemical, biological, and other high hazards.
- Demonstrated ability to effectively manage financial and human resources with commitment to AA/EEO/Diversity objectives, staff career development, and mentorship of junior scientists.
- Ability to obtain a Q Clearance which normally requires US Citizenship.

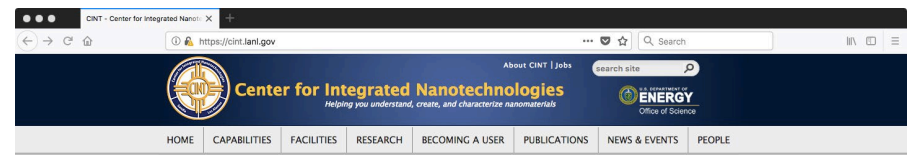
What is MPA looking for?

Desired Skills:

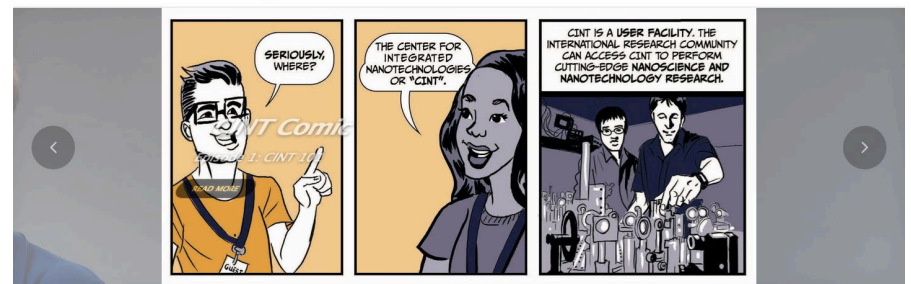
- Experience with DOE-BES.
- Knowledge of LANL and other DOE program offices.
- Experience with national user facilities.
- Demonstrated success in developing partnerships with external institutions, particularly other National Laboratories.

Further Information

- Drs. Jim Werner and Dimitry Yarotski are the CINT DGLs.
- MPA GLs, DGLs and CINT staff may provide their perspectives.
- Search Committee Chair: Dr. Mike Hundley (acting SC-PD)
- External link to the job posting: [click here](#)
- Job posting at AAAS/Science Careers: [click here](#)
- MPA website: <http://int.lanl.gov/org/ddste/aldps/mpa/index.shtml>
- CINT website: <https://cint.lanl.gov/>



CINT: Big Science AT THE Nanoscale



Questions?